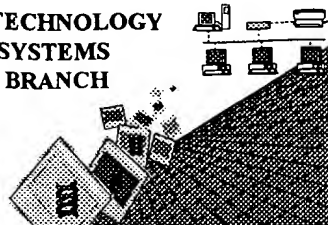


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



1644
P#18
RECEIVED
SEP 30 2002

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

TECH CENTER 1600/290C

Application Serial Number: 09/461,684B
Source: 1600
Date Processed by STIC: 9/19/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

RECEIVED

SEP 30 2002

TECH CENTER 1600/2900

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/461,684B

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

16



1600

RAW SEQUENCE LISTING

DATE: 09/18/2002

PATENT APPLICATION: US/09/461,684B

TIME: 15:16:47

Input Set : A:\57636-8020.US00-seqlist.txt

Output Set: N:\CRF4\09182002\I461684B.raw

**Does Not Comply
Corrected Diskette Needed**

pp 1-4

4 <110> APPLICANT: Laus, Reiner
 5 Hakim, Itzhak
 6 Vidovic, Damir
 8 <120> TITLE OF INVENTION: Compositions and Methods for Enhancement
 9 of Major Histocompatibility Complex Class I Restricted
 10 Antigen Presentation
 13 <130> FILE REFERENCE: 7636-0020.30
 15 <140> CURRENT APPLICATION NUMBER: US 09/461,684B
 16 <141> CURRENT FILING DATE: 1999-12-14
 18 <150> PRIOR APPLICATION NUMBER: US 60/112,324
 19 <151> PRIOR FILING DATE: 1998-12-14
 21 <160> NUMBER OF SEQ ID NOS: 10
 23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 21
 27 <212> TYPE: PRT
 28 <213> ORGANISM: Artificial Sequence
 30 <220> FEATURE:
 31 <223> OTHER INFORMATION: (peptide) *insufficient explanation - give source of*
 33 <400> SEQUENCE: 1
 34 Cys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 35 1 5 10 15
 36 Lys Lys Lys Lys Lys
 37 20
 39 <210> SEQ ID NO: 2
 40 <211> LENGTH: 25
 41 <212> TYPE: PRT
 42 <213> ORGANISM: Artificial Sequence
 44 <220> FEATURE:
 45 <223> OTHER INFORMATION: (peptide)
 47 <400> SEQUENCE: 2
 48 Cys Glu Ala Ala Ala Ala Glu Ala Ala Ala Ala Glu Ala Ala
 49 1 5 10 15
 50 Ala Ala Ala Glu Ala Ala Ala Ala Ala
 51 20 25
 53 <210> SEQ ID NO: 3
 54 <211> LENGTH: 24
 55 <212> TYPE: PRT
 56 <213> ORGANISM: Artificial Sequence
 58 <220> FEATURE:
 59 <223> OTHER INFORMATION: (peptide)
 61 <400> SEQUENCE: 3
 62 Cys Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Asn Gly Trp Glu

(global error)

*genetic material
(see item 11 on
Error Summary
Sheet)*

RAW SEQUENCE LISTING

DATE: 09/18/2002

PATENT APPLICATION: US/09/461,684B

TIME: 15:16:47

Input Set : A:\57636-8020.US00-seqlist.txt

Output Set: N:\CRF4\09182002\I461684B.raw

```

63 1          5          10          15
64 Gly Met Ile Asp Gly Trp Tyr Gly
65          20
67 <210> SEQ ID NO: 4
68 <211> LENGTH: 45
69 <212> TYPE: PRT
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: peptide
75 <400> SEQUENCE: 4
76 Cys Glu Ala Ala Ala Ala Glu Ala Ala Ala Ala Glu Ala Ala
77 1          5          10          15
78 Ala Ala Ala Glu Ala Ala Ala Ala Lys Lys Lys Lys Lys Lys Lys
79          20          25          30
80 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
81          35          40          45
83 <210> SEQ ID NO: 5
84 <211> LENGTH: 44
85 <212> TYPE: PRT
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: peptide
91 <400> SEQUENCE: 5
92 Cys Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Asn Gly Trp Glu
93 1          5          10          15
94 Gly Met Ile Asp Gly Trp Tyr Gly Lys Lys Lys Lys Lys Lys Lys
95          20          25          30
96 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
97          35          40
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 21
101 <212> TYPE: PRT
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: peptide
W--> 107 <221> NAME/KEY: VARIANT
108 <222> LOCATION: (1)...(21)
109 <223> OTHER INFORMATION: Xaa = Arg or Lys
W--> 111 <400> 6
112 Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
113 1          5          10          15
W--> 114 Xaa Xaa Xaa Xaa Xaa
115          20
117 <210> SEQ ID NO: 7
118 <211> LENGTH: 20
119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: peptide

```

RAW SEQUENCE LISTING

DATE: 09/18/2002

PATENT APPLICATION: US/09/461,684B

TIME: 15:16:47

Input Set : A:\57636-8020.US00-seqlist.txt

Output Set: N:\CRF4\09182002\I461684B.raw

W--> 125 <221> NAME/KEY: VARIANT
 126 <222> LOCATION: (1)...(20)
 127 <223> OTHER INFORMATION: Xaa = Arg or Lys

W--> 129 <400> 7
 W--> 130 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 131 1 5 10 15
 W--> 132 Xaa Xaa Xaa Xaa
 133 20
 135 <210> SEQ ID NO: 8
 136 <211> LENGTH: 7
 137 <212> TYPE: PRT
 138 <213> ORGANISM: Artificial Sequence
 140 <220> FEATURE:
 141 <223> OTHER INFORMATION: peptide

W--> 143 <221> NAME/KEY: VARIANT
 144 <222> LOCATION: (2)...(2)
 145 <223> OTHER INFORMATION: Xaa = Glu or Asp

W--> 147 <221> VARIANT
 148 <222> LOCATION: (3)...(7)
 149 <223> OTHER INFORMATION: Xaa = Ala, Leu, Ile, Phe, Gly, Cys, Met or Val

W--> 151 <221> VARIANT
 152 <222> LOCATION: (2)...(7)
 153 <223> OTHER INFORMATION: amino acids 2 to 7 comprise a subunit that is repeated three
 or more times

W--> 155 <400> 8
 W--> 156 Cys Xaa Xaa Xaa Xaa Xaa Xaa
 157 1 5
 159 <210> SEQ ID NO: 9
 160 <211> LENGTH: 6
 161 <212> TYPE: PRT
 162 <213> ORGANISM: Artificial Sequence
 164 <220> FEATURE:
 165 <223> OTHER INFORMATION: peptide

W--> 167 <221> NAME/KEY: VARIANT
 168 <222> LOCATION: (1)...(1)
 169 <223> OTHER INFORMATION: Xaa = Glu or Asp

W--> 171 <221> VARIANT
 172 <222> LOCATION: (2)...(6)
 173 <223> OTHER INFORMATION: Xaa = Ala, Leu, Ile, Phe, Gly, Cys, Met or Val

W--> 175 <221> VARIANT
 176 <222> LOCATION: (1)...(6)
 177 <223> OTHER INFORMATION: amino acids 1 to 6 comprise a subunit that is repeated three
 or more times

W--> 179 <400> 9
 W--> 180 Xaa Xaa Xaa Xaa Xaa Xaa
 181 1 5
 183 <210> SEQ ID NO: 10
 184 <211> LENGTH: 8
 185 <212> TYPE: PRT
 186 <213> ORGANISM: Artificial Sequence
 188 <220> FEATURE:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/461,684B

DATE: 09/18/2002

TIME: 15:16:47

Input Set : A:\57636-8020.US00-seqlist.txt

Output Set: N:\CRF4\09182002\I461684B.raw

189 <223> OTHER INFORMATION: peptide

191 <400> SEQUENCE: 10

192 Ser Ile Ile Asn Phe Glu Lys Leu

193 1 5

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/461,684B

DATE: 09/18/2002
TIME: 15:16:48

Input Set : A:\57636-8020.US00-seqlist.txt
Output Set: N:\CRF4\09182002\I461684B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:7; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20
Seq#:8; Xaa Pos. 2,3,4,5,6,7
Seq#:9; Xaa Pos. 1,2,3,4,5,6

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:8; Line(s) 153
Seq#:9; Line(s) 177